LCD Backlights Abstract Doc

SML Abrary & Information Services ETA - Enhanced Technology Awareness

Light Guide\Slab, Light Guide\Wedge, Light Guide\Structure on Top Surface, Diffuser\Bulk, Enhance. Film\Prism Up, Enhance. Film\Prism Down, Advantage\Brightness, Advantage\Uniformity

Category Definition:

Link to Atlas Electronic Library Translation Services

Title:

Back light for liquid-crystal display device - has lenticular lens unit wholly formed with optical diffusion part of optical sheet arranged on transparent surface of light-guide plate

Patent Assignee:

KONICA CORP

KONS

Abstract:

Abstract (Basic): JP 09145932A

The back light has a light-guide plate (10) that radiates light from a cold cathode tube (11) used as a linear light source. An optical sheet (14) is arranged on a transparent surface of the light-guide plate.

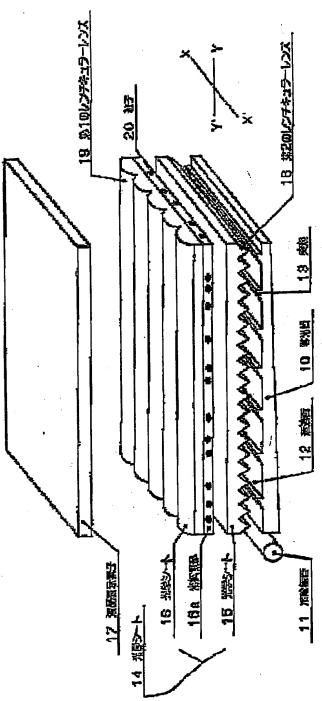
An optical processing surface (13) of the light-guide plate radiates the light from the transparent surface to the external. A lenticular lens unit (19) having a columnar lens of curved surface, is wholly for med with an optical diffusion part (16a) of the optical sheet.

ADVANTAGE - Minimises optical loss in each optical element by controlling reflection and refraction, obtaining high brightness. Prevents generation of black line by refracting light in several directions, thus preventing reduction in transverse-plane brightness.

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Clipped Images:

Engineering Drawing:



Patent Family: If available, click on fulltext doclink to view the associated fulltext/image doc.

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Priorities:

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